

# DATA SHEET

## LVL Fabrication



### Overview

For LVL structures to achieve their greatest potential, the individual billets of LVL need to be fabricated into larger finished sections. This involves taking billets of LVL up to 1.2m wide and 90mm thick and forming them into specifically designed beams & columns.

Fabrication of LVL structures demands the same careful quality control as for Glulam manufacture. Red Stag TimberLab's wide experience in gluing large structural timber members means fabricating large LVL sections is a natural progression. Achieving adequate gluing pressure and dimensional accuracy are prerequisite to achieving the designer's expectations.



Cathedral Junior Grammar School, Christchurch



Botany Toyota, Auckland

### Benefits

- » **Accuracy** - With the use of our 5 axis CNC bridge, Red Stag TimberLab's accuracy is unparalleled, removing any uncertainty about re-work onsite.
- » **Pre-fitting** - critical connections in the factory makes on-site assembly much simpler and quicker.
- » **Factory Assembled** - Full size in-factory assembly ensures a correct fit to prepared site.
- » **Long lengths** - avoids complicated splice joints
- » **Utilities & Conduits** - Can be cut / drilled in factory for easy running of utilities onsite.
- » **Economical** - Fabricated LVL offers an extremely economical structural material.
- » **Environmental** - As Red Stag TimberLab's LVL comes from only plantation timber, it is the good sustainable choice.

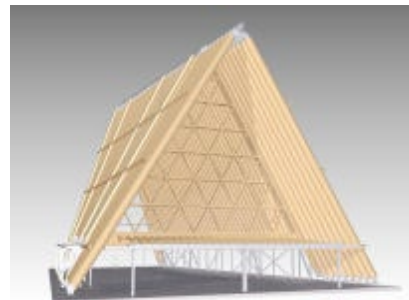


## Red Stag TimberLab's LVL Projects - a Snapshot

Using Futurebuild LVL from CHH, Red Stag TimberLab has achieved notable successes in fabricated LVL. See below, just a few projects that TimberLab has been involved with; ranging from straightforward industrial buildings to highly visual, complex ones.

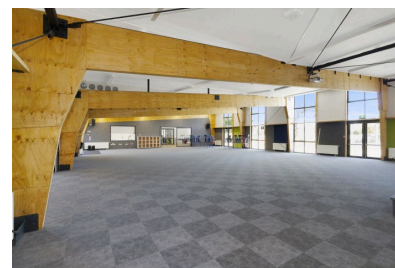
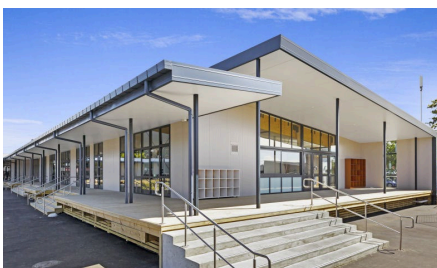
### Canterbury Transitional Cathedral (Christchurch)

Fabricated LVL rafters; the structural component of the cardboard tube. Additional joinery of the rose window.



### Shirley Primary School, (Christchurch)

Long span portal frames provide large open spaces for multiple use functions.



### Waiariki Training Centre (Rotorua)

Curved roof formed with LVL rafters at different pitches.  
Pre-cut components; easily fitted together on site, providing an impressive visual effect.



### Trimble (Christchurch)

2 storey Post-Tensioned office block.

LVL fabricated columns, floor and roof beams. 2 Storey LVL rocking shear walls.



### Some of our Other LVL Projects

Cathedral Grammar (Christchurch) / Botany Toyota (Auckland) / Merritt Dev. (Christchurch) / Transpower (Christchurch) / Brands Laboratory (Wellington) / Rangiora College (Rangiora) / St John Vianney Church (Auckland) / Carterton Events Centre / Te Oro Music Centre (Auckland) / Ecofast House (Matakana) / Botany Toyota (Auckland) / West Melton Community Centre / Diocesan School (Auckland).